



# Water Quality

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DNR- Big Marsh WMA

Part I: General Overview  
DNR- Big Marsh Wildlife Management Area, 5, 847 acres of wetland, prairie and timber that is managed to provide suitable habitat for native wildlife and species that migrate through Iowa.

Part II: Job Specifics

- Developing and restoring wildlife habitat to ensure that wildlife species have a safe place to breed, rest, and feed.
- Planting crops suitable for wildlife, working to eliminate invasive plant species, mowing, burning prairie, monitor populations of fowl, adjust water level in marsh in fall and if needed for flood control.

Part III: Introduce the Problem

- Water quality is becoming a state and national problem.
- The problem will be to test water turbidity and determine factors that will promote water quality.

Part IV: Background

- Students will need to understand what a watershed is and factors that impact watersheds.
- Students will need to understand how Big Marsh works and compare that to the wetlands area at George Wyth where they will be testing.

Part V: Business Solution

- How would or did the business solve the problem?
- Students will create ideas on how to improve water quality, focusing on turbidity of George Wyth State Park.

Part VI: Student Solutions

- Solutions may include ways to prevent shoreline erosion including: vegetation and structural barriers.